

WHAT IS CLAIMED IS:

1-8. (Canceled)

9. (Currently amended) The method according to claim 12 6, characterized in that an apoptotic phenomenon is detected in lymphocytes.

10. (Previously presented) The method according to claim 9, wherein the lymphocytes are T lymphocytes.

11. (Canceled)

12. (Currently amended) A The method according to claim 11, for detecting compounds intended for the treatment of neurodegenerative diseases, comprising exposing said compounds to a transgenic mammalian non-human animal expressing a multимutated form of presenilin 1, wherein the mutations are M146L, H163R, A246E, L286V, and C410Y, and allowing an apoptotic phenomenon to be detected in a renewable peripheral tissue combined with each other.

13-16. (Canceled)

17. (Currently amended) The method according to claim 20 8, characterized in that an apoptotic phenomenon is detected in lymphocytes.

18. (Previously presented) The method according to claim 17, wherein the lymphocytes are T lymphocytes.

19. (Canceled)

20. (Currently amended) A method according to claim 19, for detecting compounds intended for the treatment of neurodegenerative diseases comprising exposing said compounds to a cell extracted from a transgenic mammalian non-human animal expressing a multимutated form of presenilin 1, wherein the mutations are M146L, H163R, A246E, L286V, and C410Y, and allowing an apoptotic phenomenon to be detected in a renewable peripheral tissue combined with each other.

21. (Cancelled)

22. (Currently amended) The method according to claim 12 6 wherein the neurodegenerative disease includes impairments in mechanisms for protection against free radicals.

23. (Previously presented) The method according to claim 22 wherein the neurodegenerative disease is Alzheimer's disease.

24. (Currently amended) The method according to claim 20 8 wherein the neurodegenerative disease includes impairments in mechanisms for protection against free radicals.

25. (Previously presented) The method according to claim 24 wherein the neurodegenerative disease is Alzheimer's disease.